PRACTICE EDITING TEXT

Be sure you are in the Atari Memo Pad Mode. That can be accomplished by removing the BASIC cartridge or by typing "BYE" if you are in BASIC. Copy the following text exactly as it is written. You will make corrections after you have finished typing the whole section. The letters and words that are underlined show you what changes need to be made. You will type them as regular letters or words, without the underlining. The '*' shows were a word has been omitted. You should leave out the '*' when you make corrections.

Color Register—The zpecific location in and computers memory that stores the color you tell it to. pEEK—A BASIC command that tells the computer to look into a specific location in the computer is memory and see what what is stored there.

POKE—A * command that tells the computer to put a new number into a specific location in the computer's memory.

Now you are ready to correct the paragraph. Use the guide on the next page to make the corrections. The idea is to help you learn to use as few keystrokes as possible, so you should not retype whole lines to correct mistakes. The corrected version below should help you to check your final copy.

CORRECTED VERSION

Color Register—The specific location in the computer's memory that stores the color you tell it to. PEEK—A BASIC command that tells the computer to look into a specific location in the computer's memory and see what is stored there.

POKE—A BASIC command that tells the computer to put a new number into a specific location in the computer's memory.

CHALLENGES

Use FOR..NEXT loops to write a program (or programs) to solve one or more of the following problems.

1. Write a program to output one of the designs below. Frint your name instead of the word NAME if you do the first one.

A. NAME
NAME
NAME
NAME
NAME
NAME
NAME
NAME

D. XXXXX XXXXX

CHALLENGES (CONTINUED)

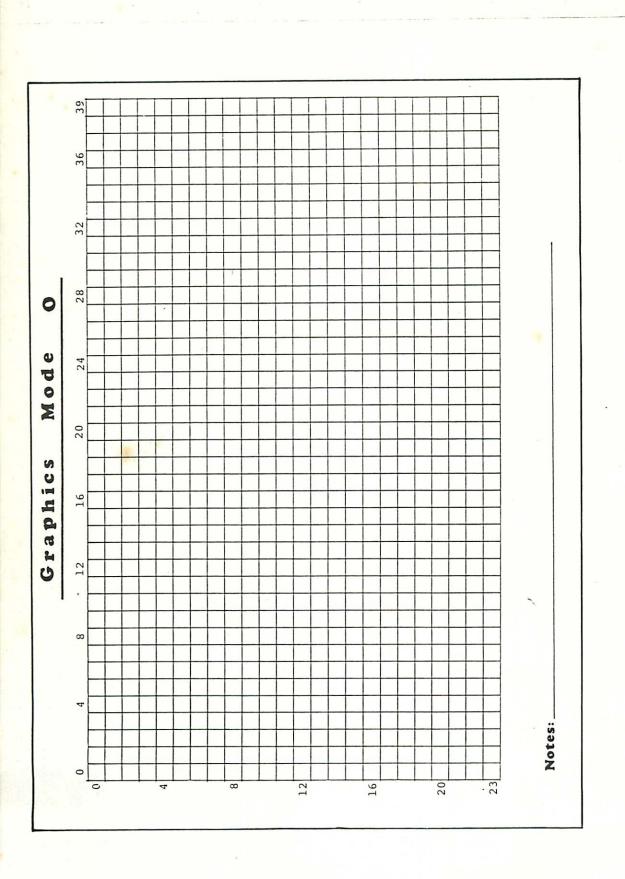
- 2. Write a program to print one of the number sequences.
 - A. First sequence:

5 24 43 62 81 100

B. Second sequence:

3 40 77 114 151 188

3. Write a program that shows all the numbers between 1 and 100 that are divisible by 3. If you have time, change the program, so that a person can ask for all the numbers between two numbers that are divisible by a third number.



LOOPS FOR * * * NEXT (CAMPER COPY)

- 10 REM FOR...NEXT Introduction
- 20 FOR COUNT=1 TO 10
- 30 FRINT COUNT
- 40 NEXT COUNT
- 10 REM Printing lots of letters.
- 20 FOR NUMTIMES=1 TO 400
- 30 PRINT "Z-";
- 40 NEXT NUMTIMES
- 50 PRINT "WOOPS! TIME TO WAKE UP."
- 10 REM Using variables and limits
- 20 START=1
- 30 FOR NUM=START TO 10
- 40 FRINT NUM
- 50 NEXT NUM
- 10 REM Dangerous and improper
 - 15 REM use of a variable
 - 20 FOR COUNTER=1 TO 25
 - 30 COUNTER=COUNTER+1
 - 40 PRINT COUNTER
 - 50 NEXT COUNTER
 - 10 REM Illustration of a Delay Loop
 - 20 PRINT "Flease wait a moment."
 - 30 FOR WAIT=1 TO 3000:NEXT WAIT
 - 40 PRINT "Thank you for waiting."

LOOPS FOR - - NEXT STEP (CAMPER COPY)

- 10 REM Illustrating STEP
- 20 FOR COUNT=1 TO 20 STEP 2
- 30 PRINT COUNT
- 40 NEXT COUNT

Add line 15 and change line 20.

- 15 NUMSTEP=4
- 20 FOR COUNT=1 TO 40 STEP NUM
- 10 REM Using variables with STEP and FOR...NEXT
- 20 PRINT "By what number would you like to"
- 30 PRINT "count?";
- 40 INPUT COUNTBY
- 50 PRINT "Let me think..."
- 60 FOR WAIT=1 TO 3000: NEXT WAIT
- 70 FRINT "OK. I will count by "; COUNTBY
- 80 FOR COUNTER=0 TO 50 STEP COUNTBY
- 90 FRINT COUNTER
- 100 NEXT COUNTER
- 10 REM A program to count backwards
- 20 FRINT ""T": REM Clears screen
- 30 "***COUNTING BACKWARDS***":FRINT
- 40 PRINT "Please give me a number"
- 50 PRINT "between 2 and 100. ";
- **60 INPUT NUM: PRINT**
- 70 FRINT "Counting backwards can be fun."
- 80 PRINT "Starting with "; NUM;" and ending with 1.": PRINT
- 90 FOR WAIT=1 TO 1000:NEXT WAIT:REM Delay loop to allow time to read
- 100 FOR COUNTER=NUM TO 1 STEP -1
- 110 FRINT COUNTER;" ";
- 120 NEXT COUNTER
- 130 PRINT : PRINT: REM Advances before starting the program again.
- 140 GOTO 40:REM Ask for another input
- 10 REM Sound demo of STEP
- 20 FOR PITCH=0 TO 255 STEP 1
- 30 SOUND 0, FITCH, 10, 10
- 40 NEXT FITCH
- 50 FOR PITCH=255 TO 0 STEP -1
- 60 SOUND 0, FITCH, 10, 10
- 70 NEXT FITCH

NESTED LOOPS (CAMPER COPY)

- 10 REM Demonstration of nested loops.
- 20 FOR OUTERLOOP=1 TO 5
- 30 FRINT "OUTERLOOP = ";OUTERLOOP
- 40 FOR INNERLOOF=1 TO 3
- 50 PRINT " INNERLOOP = "; INNERLOOP
- **60 NEXT INNERLOOP**
- 70 PRINT
- 80 NEXT OUTERLOOP

Change the values in lines 20 and 40 to:

- 20 FOR OUTERLOOP=1 TO 3
- 40 FOR INNERLOOF=1 TO 5

and then predict what the output will be before you run the program.

- 10 REM Frinting stars
- 20 FOR NUMDOWN=1 TO 10
- 30 FOR NUMACROSS=1 TO 10
- 40 FRINT "x":
- 50 NEXT NUMACROSS
- **60 FRINT**
- 70 NEXT NUMDOWN

Change the values in lines 20 and 30, so that the program makes one of the boxes below:

жж	*****	*****
жж	******	*****
жж	*****	****
жж	·	******
жж		XXXXXXX
жж		****

```
Gelerit wednes was read to the first the second of the sec
```

```
ie. Building on
                 191 m. 201
                  238 700 76
              RT STEELS SETTLE THE EXPENSE OF STEELS OF
        4.
             TU we's stempted them with a first and with the
ର ଅନ୍ତର୍ଗ । ପ୍ରତ୍ୱି ପ୍ରତି ଅନ୍ତର୍ଶ । ଅବସ୍ଥରଣ ଅନ୍ତର୍ଶ । ପ୍ରତ୍ୱରଣ ଓ ଜିଲ୍ଲି ଓ ଅନ୍ତର୍ଶ । ଅନ୍ତର୍ଶ ଓ ଅନ୍ତର୍ଶ । ଅନ୍ତର୍ଶ
ଅନ୍ତର୍ଗ ଓ ଜିଲ୍ଲିଆ ଓ ଜିଲ୍ଲିଆରେ । ଅନ୍ତର୍ଶ ପ୍ରତିଷ୍ଟ ଅନୁକ୍ର ଅନ୍ତର୍ଶ । ଅନ୍ତର୍ଶ । ଅନ୍ତର୍ଶ । ଅନ୍ତର୍ଶ । ଅନ୍ତର୍ଶ । ଅନ୍ତ
             4.30 探察人上,特别人们的。
             SE MITTER OF THE
              The Professional Carrier Co. 1987
The Professional Carrier Co. 1987
```

F

Birdi Circi et en artisti entrett, film beforbell i figig film, janjana skin njert græ

***** 5 各种基础。但是这一篇如他,然后可以可以是一定。 《秦寒等》,各自以《自注》,自己的自治,是一个一大自己自己。

ඉට පම්බුවෙන් වණ ඇති මම වුදු පුමුවූ විද්යා "Cwr 14ke this! Comme one the basis on the order

eda o e supur AS MERSEL PATRICTION. 👻 🕽 (British Belging) (See Shiring) (See S 40 value de la compansación de la compansa 4 V :

MESTED LOOPS (CAMPER COPY - CONTINUED)

- 10 REM A triangle of stars
- 20 FOR ROW=1 TO 10
- 30 FOR STARS=1 TO ROW
- 40 FRINT "x";
- 50 NEXT STARS
- 60 PRINT
- 70 NEXT ROW

Change the program, so that the triangle is turned upside down like this:

жж

ж

- 10 REM Moving indenting before printing.
- 20 PRINT ""T": REM Clear screen.
- 30 PRINT "INDENT"
- 40 FOR INDENT=1 TO 10
- 50 FOR SPACES=1 TO INDENT
- 60 PRINT " ";
- 70 NEXT SPACES
- 80 PRINT "INDENT"
- 90 NEXT INDENT

10 REM Combining color and sound

- 20 PRINT "↑":REM Clear screen
- 30 FOR COUNTER=1 TO 5
- 40 FOR COLORPITCH=50 TO 150
- 50 POKE 710, COLORPITCH: REM Changes screen color
- 60 SOUND 0, COLORFITCH, 10, 6
- 70 FOR WAIT=1 TO 10
- 80 NEXT WAIT
- 90 NEXT COLORPITCH
- 100 NEXT COUNTER

Pateu ostroser

A REPORT OF THE STATE OF THE tora monayan mara 15 ^ Foundation 04 A .. Peret exec on 4-37-44- 1-3-4 s 92 - 5 6 5 5 5 - 1 (2.4 * PRIJA9 88 A STATE OF S 7 4 4 4 4 0 0 1 " (, ' K \$. 5 t) = 17 mm. J. 1 + 43 = 11 4144 014 JTGE v'

TARREST TO THE SET OF THE SET OF

TEN COMPLIAN ON INT STREET AND CONTRACT OF THE CONTRACT OF THE

(CAMPER COPY)

10 REM The Allowance Con
20 REM Ask for an allowance in a
30 REM different way. Ask for 1 cent
40 REM the first week. Then ask that
50 REM the amount be doubled each week.
60 REM The program shows you how much you
70 REM would earn each week.
80 PRINT " ":REM Clear screen
90 WEEK=1:ALLOWANCE=1
100 PRINT "WEEK #";WEEK
110 PRINT "ALLOWANCE = \$";ALLOWANCE/100
120 PRINT
130 ALLOWANCE=ALLOWANCE*2
150 WEEK=WEEK+1
210 GOTO 100